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NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY  
NEWS 8 SEP 22 MATHDI to be removed from STN

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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:33:47 ON 30 SEP 2005

=> s young kathleen/au

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file medline biosis embase caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 08:34:10 ON 30 SEP 2005

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FILE 'CAPLUS' ENTERED AT 08:34:10 ON 30 SEP 2005

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=> s young kathleen/au

L1 12 YOUNG KATHLEEN/AU

=> s rhodes kenneth/au

L2 17 RHODES KENNETH/AU

=> s (potassium (s) channel (s) intracellular (s) receptor (s) amino (s) terminal (s) region) (a) (reporter (s) gene)

PROXIMITY OPERATION NOT ALLOWED

Certain operators may not be nested in combination with other operators. A nested operator is valid only when it occurs at the same level or above the operator outside the nested phrase as determined by the following precedence list:

1. Numeric
2. (W), (NOTW), (A), (NOTA)
3. (S), (NOTS)
4. (P), (NOTP)
5. (L), (NOTL)
6. AND, NOT
7. OR

For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W)

is above (L) on the precedence list. However,

'((THIN(W)LAYER)(L)PHOSPHOLIPID#)(A)LACTONE#' is not valid since (L)

is below (A) on the precedence list. The only exception is the 'OR'

operator. This operator may be used in combination with any other

operator. For example, '(ATOMIC OR NUCLEAR)(W)REACTOR' is valid.

=> s (potassium (s) channel (s) intracellular (s) receptor (s) amino (s) terminal (s) region) AND (reporter (s) gene)

L3 0 (POTASSIUM (S) CHANNEL (S) INTRACELLULAR (S) RECEPTOR (S) AMINO (S) TERMINAL (S) REGION) AND (REPORTER (S) GENE)

=> s (potassium (s) channel (s) intracellular (s) receptor (s) amino (s) terminal) AND (reporter (s) gene)

L4 0 (POTASSIUM (S) CHANNEL (S) INTRACELLULAR (S) RECEPTOR (S) AMINO (S) TERMINAL) AND (REPORTER (S) GENE)

=> s (potassium (s) channel) AND (intracellular (s) receptor) AND (amino (s) terminal) AND (reporter (s) gene)

L5 1 (POTASSIUM (S) CHANNEL) AND (INTRACELLULAR (S) RECEPTOR) AND (AMINO (S) TERMINAL) AND (REPORTER (S) GENE)

=> s (potassium (s) channel) AND shaker AND (amino (s) terminal) AND (reporter (s) gene)

L6 0 (POTASSIUM (S) CHANNEL) AND SHAKER AND (AMINO (S) TERMINAL) AND (REPORTER (S) GENE)

=> s (shaker (s) potassium (s) channel) AND (reporter (s) gene)

L7 19 (SHAKER (S) POTASSIUM (S) CHANNEL) AND (REPORTER (S) GENE)

=> dup rem 17

PROCESSING COMPLETED FOR L7

L8 11 DUP REM L7 (8 DUPLICATES REMOVED)

=> d l8 total ibib kwic

L8 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:435383 CAPLUS  
DOCUMENT NUMBER: 139:18342  
TITLE: Collections of transgenic animal lines with subsets of  
cells characterized by expression of an endogenous  
marker gene and uses  
INVENTOR(S): Serafini, Tito Andrew  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 77 pp., Cont.-in-part of U.S.  
Ser. No. 783,487.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003106074	A1	20030605	US 2002-77025	20020214
US 2003051266	A1	20030313	US 2001-783487	20010214

PRIORITY APPLN. INFO.: US 2001-783487 A2 20010214

IT Genetic element  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(IRES (internal ribosomal entry site) element, operably linked to  
**reporter gene**; collections of transgenic animal lines  
with subsets of cells characterized by expression of endogenous marker  
**gene** and uses)

IT Transcription factors  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(activator of **reporter gene**, transgene encoding;  
collections of transgenic animal lines with subsets of cells  
characterized by expression of endogenous marker **gene** and  
uses)

IT Escherichia coli  
(as expression host, **reporter gene** carried out in;  
collections of transgenic animal lines with subsets of cells  
characterized by expression of endogenous marker **gene** and  
uses)

IT Animal cell line  
(collection, expressing **reporter gene**; collections  
of transgenic animal lines with subsets of cells characterized by  
expression of endogenous marker **gene** and uses)

IT Transgene  
RL: BSU (Biological study, unclassified); BUU (Biological use,  
unclassified); BIOL (Biological study); USES (Uses)  
(comprising **reporter gene** followed by animal line  
characterizing endogenous **gene**; collections of transgenic  
animal lines with subsets of cells characterized by expression of  
endogenous marker **gene** and uses)

IT Potassium channel  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(voltage-gated, **Shaker**, isoforms, gene for, as characteristic  
marker for transgenic mouse; collections of transgenic animal lines  
with subsets of cells characterized by expression of endogenous marker  
gene and uses)

L8 ANSWER 2 OF 11 MEDLINE on STN DUPLICATE 1  
ACCESSION NUMBER: 2003161332 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12678562

TITLE: Regulated expression of Arabidopsis shaker K+ channel genes involved in K+ uptake and distribution in the plant.  
 AUTHOR: Pilot Guillaume; Gaymard Frederic; Mouline Karine; Cherel Isabelle; Sentenac Herve  
 CORPORATE SOURCE: Biochimie et Physiologie Moleculaire des Plantes, UMR 5004, Agro-M/CNRS/INRA/UM2, 34060 Montpellier Cedex 1, France.  
 SOURCE: Plant molecular biology, (2003 Mar) 51 (5) 773-87.  
 Journal code: 9106343. ISSN: 0167-4412.  
 PUB. COUNTRY: Netherlands  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200304  
 ENTRY DATE: Entered STN: 20030408  
 Last Updated on STN: 20030422  
 Entered Medline: 20030421

AB . . . by the root, K+ secretion into the xylem sap and K+ transport in the phloem tissues, respectively. Using the GUS **reporter** strategy, we have found that another Shaker channel **gene**, AtKCl1, is expressed in epidermal and cortical cells in roots (supporting the hypothesis of a role in K+ uptake from. . .

RN 143403-88-7 (**Shaker potassium channels**); 21293-29-8 (Absciscic Acid); 7440-09-7 (Potassium); 7647-14-5 (Sodium Chloride); 94-75-7 (2,4-Dichlorophenoxyacetic Acid)

L8 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:637801 CAPLUS

DOCUMENT NUMBER: 137:180780

TITLE: Collections of transgenic animal lines in which a subset of cells characterized by expression of an endogenous "characterizing" gene and uses

INVENTOR(S): Serafini, Tito Andrew

PATENT ASSIGNEE(S): Renovis, Inc., USA

SOURCE: PCT Int. Appl., 170 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002064749	A2	20020822	WO 2002-US4765	20020214
WO 2002064749	A3	20030320		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003051266	A1	20030313	US 2001-783487	20010214
PRIORITY APPLN. INFO.:			US 2001-783487	A 20010214

IT Codons

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(AUG, start, of characterizing endogenous **gene**, **reporter gene** fused in frame to; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Genetic element

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (IRES (internal ribosomal entry site) element, operably linked to **reporter gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Transcription factors  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (activator of **reporter gene**, transgene encoding; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Escherichia coli  
 (as expression host, **reporter gene** carried out in; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Animal cell line  
 (collection, expressing **reporter gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Transgene  
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (comprising **reporter gene** followed by animal line characterizing endogenous **gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Enzymes, analysis  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (detectable, **reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT **Gene**, animal  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (endogenous, as line characterizing **gene**, **reporter gene** fused to; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Proteins  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (fluorescent, **reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Proteins  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study).  
 (green fluorescent, **reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Genetic element  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (regulatory, of **reporter gene**, activator or repressor controlling; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Transcription factors  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (repressors, of **reporter gene**, transgene encoding; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT **Reporter gene**

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(system **gene**, operably linked to endogenous regulatory sequence, followed by characterizing endogenous **gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Animal

Mus

(transgenic, comprising **reporter gene** and characterizing **gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Potassium channel

RL: BSU (Biological study, unclassified); BIOL (Biological study) (voltage-gated, **Shaker**, **shaker**-related, KCNA2, KCNA3, KCNA4, KCNA4L, KCNA5, KCNA6, KCNA7, KCNA10, characterizing genes for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Potassium channel

RL: BSU (Biological study, unclassified); BIOL (Biological study) (voltage-gated, **shaker**-related, KCNAB1, KCNAB2, KCNAB3 characterizing genes for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT 9073-60-3,  $\beta$ -Lactamase

RL: ARU (Analytical role, unclassified); ANST (Analytical study) (**reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

L8 ANSWER 4 OF 11

MEDLINE on STN

DUPLICATE 2

ACCESSION NUMBER: 2002157972 MEDLINE

DOCUMENT NUMBER: PubMed ID: 11842160

TITLE: A grapevine gene encoding a guard cell K(+) channel displays developmental regulation in the grapevine berry.

AUTHOR: Pratelli Rejane; Lacombe Benoit; Torregrosa Laurent; Gaymard Frederic; Romieu Charles; Thibaud Jean-Baptiste; Sentenac Herve

CORPORATE SOURCE: Biologie du Developpement des Plantes Perennes Cultivees, Unite Mixte de Recherche 1098 Agro-M/Centre de Cooperation Internationale en Recherche Agronomique pour le Developpement, 2 place Viala, F-34060 Montpellier cedex 1, France.

SOURCE: Plant physiology, (2002 Feb) 128 (2) 564-77.

Journal code: 0401224. ISSN: 0032-0889.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200206

ENTRY DATE: Entered STN: 20020314

Last Updated on STN: 20020628

Entered Medline: 20020627

AB . . . channel displaying functional properties very similar to those of KAT2. The activity of SIRK promoter region fused to the GUS **reporter gene** was analyzed in both grapevine and Arabidopsis. Like other KAT-like channels, SIRK is expressed in guard cells. In Arabidopsis, the . . .

RN 143403-88-7 (**Shaker potassium channels**); 7732-18-5 (Water)

L8 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:842304 CAPLUS

DOCUMENT NUMBER: 134:13998

TITLE: Two-hybrid method to detect interaction between two specific proteins in mammalian cell  
 INVENTOR(S): Tsukahara, Kappei; Hida, Takayuki; Nakamura, Katsuji; Yoshitomi, Hideki  
 PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 63 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000071743	A1	20001130	WO 2000-JP3353	20000525
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRIORITY APPLN. INFO.: JP 1999-144946 A 19990525  
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB A method is described for efficiently detecting the interaction between a first protein and a second protein in mammalian cell by a two-hybrid method. The method uses the mammalian cell possessing the DNA carrying a **reporter gene** (e.g., secretory alkaline phosphatase **gene**,  $\beta$ -galactosidase **gene**) ligated in the downstream of the base sequence binding to a DNA-binding domain (e.g., GAL4 DNA-binding domain). The interaction between the first protein and the second protein is recognized by detecting the expression of the **reporter gene** upon expressing a fusion protein of the first protein with two or more, identical or non-identical transcriptional activation domains (e.g., VP-16 transcriptional activation domain, p53 transcriptional activation domain), and another fusion protein of the second protein with the DNA-binding domain. The interaction was detected with a high sensitivity using this method between src-SH3 protein and a peptide containing proline-rich motif, and between a peptide containing PDZ sequence in hDlg protein and a peptide containing the C-terminal sequence of Shaker-type K channel (Kv1.4).

ST two hybrid method fusion protein interaction; **reporter gene** expression transcriptional activation protein

IT **Potassium channel**

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(Shaker-type; C-terminus; two-hybrid method to detect interaction between two specific proteins in mammalian cell)

IT DNA

**Reporter gene**

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process);

USES (Uses)

(two-hybrid method to detect interaction between two specific proteins in mammalian cell)

L8 ANSWER 6 OF 11 MEDLINE on STN

ACCESSION NUMBER: 2000387631 MEDLINE

DOCUMENT NUMBER: PubMed ID: 10908607

TITLE: Viral gene transfer of dominant-negative Kv4 construct suppresses an O2-sensitive K<sup>+</sup> current in chemoreceptor cells.

AUTHOR: Perez-Garcia M T; Lopez-Lopez J R; Riesco A M; Hoppe U C; Marban E; Gonzalez C; Johns D C

CORPORATE SOURCE: Instituto de Biologia y Genetica Molecular, Universidad de Valladolid y Consejo Superior de Investigaciones Cientificas, Departamento de Bioquimica y Biologia

Molecular y Fisiologia, Valladolid, Spain..  
tperez@ibgm.uva.es  
P50 HL52307 (NHLBI)

CONTRACT NUMBER: P50 HL52307 (NHLBI)  
SOURCE: Journal of neuroscience : official journal of the Society  
for Neuroscience, (2000 Aug 1) 20 (15) 5689-95.  
Journal code: 8102140. ISSN: 0270-6474.

PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200008  
ENTRY DATE: Entered STN: 20000818  
Last Updated on STN: 20000818  
Entered Medline: 20000810

AB . . . of the constructs into chemoreceptor cells has been achieved with  
adenoviruses that enabled ecdysone-inducible expression of the  
dominant-negative constructs and **reporter genes** in  
polycistronic vectors. In voltage-clamp experiments, we found that,  
whereas adenoviral infections of chemoreceptor cells with Kv1.xDN did not  
modify. . .

RN 143403-88-7 (**Shaker potassium channels**); 4368-28-9  
(Tetrodotoxin); 7440-09-7 (Potassium); 7782-44-7 (Oxygen)

L8 ANSWER 7 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
DUPLICATE 3

ACCESSION NUMBER: 2000:369641 BIOSIS  
DOCUMENT NUMBER: PREV200000369641  
TITLE: A shaker-like K<sup>+</sup> channel with weak rectification is  
expressed in both source and sink phloem tissues of  
Arabidopsis.

AUTHOR(S): Lacombe, Benoit; Pilot, Guillaume; Michard, Erwan; Gaymard,  
Frederic; Sentenac, Herve; Thibaud, Jean-Baptiste [Reprint  
author]

CORPORATE SOURCE: Biochimie et Physiologie Moleculaire des Plantes, UMR 5004,  
Agro-M/CNRS/INRA/UM2, Place Viala, 34060, Montpellier Cedex  
1, France

SOURCE: Plant Cell, (June, 2000) Vol. 12, No. 6, pp. 837-851.  
print.  
CODEN: PLCEEW. ISSN: 1040-4651.

DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 30 Aug 2000  
Last Updated on STN: 8 Jan 2002

AB. . . were used to identify a single K<sup>+</sup> channel gene in Arabidopsis as  
expressed throughout the plant. Use of the beta-glucuronidase  
**reporter gene** revealed expression of this **gene**  
, AKT2/AKT3, in both source and sink phloem tissues. The AKT2/AKT3 gene  
corresponds to two previously identified cDNAs, AKT2 (reconstructed at. .

IT . . .  
Circulation

IT Parts, Structures, & Systems of Organisms  
phloem, sink tissue, source tissue

IT Chemicals & Biochemicals  
abscisic acid: phytohormone; **shaker-like potassium**  
**ion channel**: expression, weak rectification; Arabidopsis AKT2  
gene; Arabidopsis AKT2/AKT3 gene: expression; Arabidopsis AKT3 gene

L8 ANSWER 8 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1999:181033 BIOSIS  
DOCUMENT NUMBER: PREV199900181033  
TITLE: Expression of a potassium channel-**reporter**  
**gene** fusion protein in cultured hippocampal  
neurons.



AUTHOR(S): Kilani, R. K.; Falk, T.; Yool, A. J.; Sherman, S. J.  
CORPORATE SOURCE: Dep. Neurol., Univ. Arizona, Tucson, AZ 85724, USA  
SOURCE: FASEB Journal, (March 12, 1999) Vol. 13, No. 4 PART 1, pp. A472. print.  
Meeting Info.: Annual Meeting of the Professional Research Scientists for Experimental Biology 99. Washington, D.C., USA. April 17-21, 1999.  
CODEN: FAJOEC. ISSN: 0892-6638.

DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 5 May 1999

Last Updated on STN: 5 May 1999

TI Expression of a potassium channel-**reporter gene** fusion protein in cultured hippocampal neurons.

IT . . .

IT Parts, Structures, & Systems of Organisms  
cell membrane; hippocampal neurons: nervous system, cultured;  
voltage-gated potassium channels; Golgi apparatus; Kv1.4,  
**shaker-type potassium channel**

IT Diseases  
focal epilepsy: nervous system disease  
Epilepsy (MeSH)

IT Chemicals & Biochemicals  
enhanced green fluorescent protein: fluorescent reporter; potassium  
channel-**reporter gene** fusion protein: expression

L8 ANSWER 9 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1999:317889 BIOSIS

DOCUMENT NUMBER: PREV199900317889

TITLE: Expression of a potassium channel-**reporter gene** fusion protein in cultured hippocampal neurons.

AUTHOR(S): Kilani, R. K. [Reprint author]; Falk, T. [Reprint author];  
Yool, A. J. [Reprint author]; Sherman, S. J. [Reprint  
author]; Witte, M. H. [Reprint author]

CORPORATE SOURCE: Department of Neurology, University of Arizona, Tucson, AZ,  
85724, USA

SOURCE: Journal of Investigative Medicine, (April, 1999) Vol. 47,  
No. 4, pp. 196A. print.

Meeting Info.: Meeting of the American Federation For  
Medical Research at Experimental Biology '99. Washington,  
D.C., USA. April 16-18, 1999. American Federation for  
Medical Research.

ISSN: 1081-5589.

DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 17 Aug 1999

Last Updated on STN: 17 Aug 1999

TI Expression of a potassium channel-**reporter gene** fusion protein in cultured hippocampal neurons.

IT . . .

green fluorescent protein: fluorescent reporter, small protein;  
potassium channel: voltage-gated; Kv1.4-EGFP fusion protein  
[Kv1.4-enhanced green fluorescent protein fusion protein]; Kv1.4:  
**shaker-type potassium channel**

L8 ANSWER 10 OF 11 MEDLINE on STN DUPLICATE 4

ACCESSION NUMBER: 97264425 MEDLINE

DOCUMENT NUMBER: PubMed ID: 9110258

TITLE: Tissue-specific alternative splicing of **Shaker potassium channel** transcripts results from distinct modes of regulating 3' splice choice.

AUTHOR: Iverson L E; Mottes J R; Yeager S A; Germeraad S E  
 CORPORATE SOURCE: Division of Neurosciences, Beckman Research Institute of  
 the City of Hope, Duarte, California 91010, USA.  
 CONTRACT NUMBER: NS18858 (NINDS)  
 NS28135 (NINDS)  
 SOURCE: Journal of neurobiology, (1997 May) 32 (5) 457-68.  
 Journal code: 0213640. ISSN: 0022-3034.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199706  
 ENTRY DATE: Entered STN: 19970630  
 Last Updated on STN: 19970630  
 Entered Medline: 19970616

TI Tissue-specific alternative splicing of **Shaker potassium**  
**channel** transcripts results from distinct modes of regulating 3'  
 splice choice.

AB . . . enables a single gene to encode multiple protein isoforms with  
 different functional characteristics and tissue distributions.  
 Differential splicing of *Drosophila Shaker* (Sh) gene transcripts  
 regulates the tissue-specific expression of kinetically distinct  
**potassium ion channels** throughout development.  
 Regulation of Sh alternative splicing is being examined in germline  
 transformants using lacZ as a **reporter gene**.  
 P-element constructs were generated in which one or both of the two  
 mutually exclusive Sh 3' acceptor sites were positioned. . .

CT \*Alternative Splicing: PH, physiology  
 Animals  
 \*Drosophila melanogaster: GE, genetics  
 Gene Expression Regulation: PH, physiology  
 Genes, Insect: GE, genetics  
**Genes, Reporter**  
 Lac Operon  
 Muscles: CH, chemistry  
 Muscles: PH, physiology  
 Mutagenesis: PH, physiology  
 Organ Specificity  
 \*Potassium Channels: GE, genetics  
 RNA. . .

RN 143403-88-7 (**Shaker potassium channels**)

L8 ANSWER 11 OF 11 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 95209868 MEDLINE

DOCUMENT NUMBER: PubMed ID: 7695908

TITLE: Tissue-specific alternative splicing of hybrid Shaker/lacZ  
 genes correlates with kinetic differences in Shaker K+  
 currents in vivo.

AUTHOR: Mottes J R; Iverson L E

CORPORATE SOURCE: Division of Neurosciences Beckman Research Institute of the  
 City of Hope, Duarte, California 91010.

CONTRACT NUMBER: NS18858 (NINDS)  
 NS28135 (NINDS)

SOURCE: Neuron, (1995 Mar) 14 (3) 613-23.  
 Journal code: 8809320. ISSN: 0896-6273.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199505

ENTRY DATE: Entered STN: 19950510

Last Updated on STN: 19961106

Entered Medline: 19950501

AB . . . diversity, clear tissue-specific differences in the distribution

of particular Sh gene products have not been demonstrated. Using lacZ as a reporter gene for accurate splicing of variable Sh3' domains, we observe differences in beta-galactosidase expression patterns in transgenic animals that indicate both. . .

RN 143403-88-7 (Shaker potassium channels)